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APPLICATION NO.	FILIN	IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,827	02/11/2002		John Hesti	002900US	4651
3	590	09/23/2004		EXAMINER	
MDS Sciex				CHIN, CHRISTOPHER L	
1170 Veteran's	Blvd.				
Suite 200				ART UNIT	PAPER NUMBER
South San Francisco, CA 94080				1641	

DATE MAILED: 09/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/073,827	HEFTI ET AL.	HEFTI ET AL.				
	Office Action Summary	Examiner	Art Unit					
		Christopher L. Chin	1641					
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet t	with the correspondence a	address				
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION Insions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication is period for reply specified above is less than thirty (30) days, be period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by seeply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the eriod will apply and will expire SIX (6) MC statute, cause the application to become a	a reply be timely filed hirty (30) days will be considered tim DNTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	nely. communication.				
Status								
1)⊠	Responsive to communication(s) filed on	18 September 2002.						
2a) <u></u> □	This action is FINAL . 2b)⊠	This action is non-final.						
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5) <u></u> 6)⊠	Claim(s) <u>4-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) <u>4-20</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9)[The specification is objected to by the Exa	miner.						
10)	The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	•						
Priority (ınder 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Business of the attached detailed Office action for a	nents have been received. nents have been received in priority documents have bee ureau (PCT Rule 17.2(a)).	Application No In received in this Nationa	al Stage				
Attachmen	t(s)							
	e of References Cited (PTO-892)		Summary (PTO-413)					
3) 🛛 Infor	e of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449 or PTO/SI r No(s)/Mail Date		o(s)/Mail Date f Informal Patent Application (P ⁻ 	TO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 4-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 is vague. In line 1, the recitation of "the system-independent permittivity" lacks antecedent support. The body of the claim is not consistent with the preamble. The preamble recites a method for determining the system-independent permittivity of a molecular event but the last step of the method recited in the body of the claim is directed to computing the permittivity of a test sample. Step (d) of the method is not clear as to what is entailed in "applying the defined permittivity coefficients to the difference between the output parameters" because the term "applying" is not defined.

Claim 8 is vague because it is not clear as to how the step of measuring the complex permittivity of the calibration samples fits into the method of claim 4.

Claim 10 is vague because it is not clear as to how the step of calculating real and imaginary permittivity difference quantities fits into the method of claim 4.

Claim 11 is vague and confusing. Claim 11 recites another set of steps (a)-(d) even though claim 4, from which claim 11 ultimately depends, already recites a set of steps (a)-(d). In line 2, the recitation of "the critical coupling point" lacks antecedent support.

Claim 12 is vague because it is not clear as to how the step of measuring resistance and reactance parameters fits into the method of claim 4.

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Claim 14 is vague because it is not clear as to how the step of measuring real and imaginary components of an s-parameter measurement fits into the method of claim 4.

Claim 18 is vague because it is not clear as to how the step of deriving three bilinear calibrated coefficients fits into the method of claim 4.

Claim 19 is vague because it is not clear as to how the step of measuring the reflection coefficient of the test sample fits into the method of claim 4. Also, the recitation of "the reflection coefficient" lacks antecedent support.

Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - U.S. Patent 6,586,946 discloses a similar method.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher L. Chin whose telephone number is (571) 272-0815. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher L. Chin Primary Examiner Art Unit 1641

Christoph L. Chin

9/19/04